WHAT IS CLAIMED IS:

- 1. An inspection system including at least a camera with the ability to selectively readout a number of rows.
- 2. The inspection system of claim 1, further comprising a controller that programs the camera to readout a specified number of rows.
- 3. The inspection system of claim 2, wherein the camera includes an imager having a first number of rows, and wherein the specified number of rows is less than the first number of rows.
- 4. The inspection system of claim 2, wherein the inspection system is configured to inspect semiconductor substrates.
- 5. The inspection system of claim 4, wherein the semiconductor substrates comprise a plurality of semiconductor die, and wherein the controller is configured to program the camera to readout the specified number of rows based on a size of the semiconductor die or pattern.
- 6. The inspection system of claim 5, wherein the size of the semiconductor die or pattern is less than a field of view of the camera.
- 7. The inspection system of claim 5, wherein the size of the semiconductor die or pattern is greater than a field of view of the camera.
- 8. An inspection device including at least a camera with the ability to selectively readout groups of pixels in one axis of an imager of the camera.
- 9. The inspection device of claim 8, further comprising a controller that programs the camera.

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- 10. The inspection device of claim 9, wherein the controller programs the camera to readout a specified number of groups of pixels in one axis of the imager.
- 11. The inspection device of claim 10, wherein the imager has a first number of rows, each of the groups of pixels is a row of pixels, and the specified number of groups of pixels is less than the first number of rows.
- 12. The inspection device of claim 10, wherein the inspection device is configured to inspect semiconductor substrates.
- 13. The inspection device of claim 12, wherein the semiconductor substrates comprise a plurality of semiconductor die, and wherein the controller is configured to program the camera to readout the specified number of groups of pixels based on a size of the semiconductor die or pattern.
- 14. The inspection device of claim 13, wherein the size of the semiconductor die or pattern is less than a field of view of the camera.
- 15. The inspection device of claim 13, wherein the size of the semiconductor die or pattern is greater than a field of view of the camera.
- 16. An automated method of inspecting a plurality of semiconductor die, the method comprising:

providing a camera including an imager;

capturing image frames of the plurality of semiconductor die with the imager, each captured frame including a first number of rows of pixels;

reading out pixel data from the imager for each captured frame, the pixel data for each captured frame including a second number of rows of pixels that is less than the first number of rows of pixels; and

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identifying defects in the plurality of semiconductor die based on the pixel data read out from the imager.

17. The method of claim 16, and further comprising: programming the camera to read out the second number of rows of pixels based on a size of the semiconductor die or pattern.

- 18. The method of claim 16, wherein a size of each of the semiconductor die or pattern is less than a field of view of the camera.
- 19. The method of claim 16, wherein a size of each of the semiconductor die or pattern is greater than a field of view of the camera.